

CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application.

1-8. canceled

9. (previously presented) An isolated nucleic acid molecule, wherein said nucleic acid molecule comprises SEQ ID No. 35.

10-87. canceled

88. (previously presented) An expression vector comprising said nucleic acid molecule of Claim 9.

89. (previously presented) The expression vector of Claim 88, wherein said nucleic acid molecule is operably linked to regulatory sequences to control expression of said nucleic acid molecule.

90. (original) The expression vector of Claim 89, wherein the regulatory sequence is a *Streptomyces* promoter.

91. (previously presented) A host cell transformed with the nucleic acid molecule of Claim 9.

92. (original) A host cell transformed with the expression vector of Claim 88.

93. (original) A host cell transformed with the expression vector of Claim 89.

94. (original) The host cell of Claim 91, wherein the host cell is a bacterium, yeast, insect, plant, fungi, or mammalian cell.

95. (previously presented) The host cell of Claim 91, wherein said bacterium is *E. coli* or *Streptomyces*.

96. (previously presented) A cosmid comprising a nucleic acid molecule from the calicheamicin biosynthetic gene cluster from *Micromonospora echinospora*, wherein said nucleic acid molecule comprises SEQ ID No. 35.

97. (canceled)

98. (previously presented) A method of expressing a protein comprising the steps of transfecting a host cell with the expression vector of Claim 88 and incubating said cell for a length of time and under conditions sufficient for expression of said protein wherein said protein comprises SEQ ID No. 36.

99. (previously presented) The method of Claim 98, wherein said host cell is a bacterial, yeast, insect, plant, fungal, or mammalian cell.

100-144. canceled

145. (previously presented) An isolated nucleic acid molecule coding for an amino acid sequence comprising SEQ ID No. 36.

146-149. canceled

150. (previously presented) The isolated nucleic acid molecule of Claim 9, wherein said nucleic acid molecule comprises the entire calicheamicin gene cluster from *Micromonospora echinospora*.

151. (previously presented) The cosmid of Claim 96, wherein said cosmid comprises the entire calicheamicin gene cluster from *Micromonospora echinospora*.

152-156. canceled